# Polymer Volumetric Truck

Trucks shall MPQP (CTM 109) before JOB Starts.
Standard Specifications Section 9 page 91 and 92
Standard Specifications Section 37 page 274 and 275
Constructor shall Supply Certify Scale, weights and
Equipment for the Testing and Calibration.

Computer for Aggregate shall read to .1 lbs. so we can run a
smaller Volume or we need to run a minimum of 1000 lbs.

Test each Bin and Gate setting to be used.

Test Resin and any Admixtures for Calibration. If read to .01
lbs we can run smaller Volumes.

Scale 500 lbs. x .1 lbs. run 300 lbs. of weigh.
Aggregate gate setting should be ¾ to 1 ½ inches.
Sand gate setting should be 1 ½ to 2 ½ inches.
Sand and aggregate 2 to 1 proportioning. Do a grading.
Need to check more than one gate setting to keep grading in.
On most trucks run 10 or more revolution to get around?
300 lbs.  830 lbs. per min.

Resins run about 3 gals or 8 to 10 strokes on pump.
Stroke start and stop the pump at the same each time.
 Resin 20 to 40 lbs. in a 5 gal bucket no harder.
12 % resin to the aggregate. Unit weight can give you
that information.

Earl Woolery
02/04/10

Lbs. of resin at 12 % needed for lbs. of aggregate.

A = aggregate lbs. per min. 840 lbs.
B = resin lbs. per. min.
C = .12 % resin.
D = resin lbs. per. stroke. 2.6625
E = strokes per min.

Need find out lbs. per stroke of resin.

Weigh resin at 8 pump strokes = 21.3 lbs.
21.3 / 8 = 2.6625 lbs. per. stroke resin pump put out.

Lbs. of resin needed for 840 lbs. aggregate.
Aggregate lbs. per. min. x .12 = B / lbs. per. stroke = strokes per min. A x C = B
840 x .12 = 100.80 lbs. resin per. min will be needed.

How many strokes a min. resin pump will need to put out for 840 lbs. aggregate per min.
B / D = E
100.80 / 2.6625 = 37.8592 strokes.

Earl Woolery
02/04/10